9300238

THE UNITED SHAMES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Pioneer Hi-Bred International, Inc.

Thereis, there has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED, PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FIES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY. OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEO.)

SOYBEAN

'9242'

In Testimonn Morroof. I have hereunto set my hand and caused the seal of the Mont Touristy Protection Office to be affixed at the City of Washington, D.C. this thirtieth day of May in the year of our Lord one thousand nine hundred and ninety-seven.

Tan filistem

Alled

Marsha A. Sta Commissioner

Plant Univery Protection Office Agricultural Marketing Service Public reporting burden for this collection of information is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Agriculture, Clearance Office, OIRM, Room 404-W, Washington, D.C. 20250; and to the Office of Management and Budget, Paperwork Reduction Project (OMB #0581-0055), Washington, 20250.

U.S. DEPARTMENT OF AGRICULTU	JRE .			
APPLICATION FOR PLANT VARIETY PRO		Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421) Information is held confidential until		
(Instructions on reverse 1. NAME OF APPLICANT(S) (as it is to appear on the Certificate))			ertificate is issued (7 U.S.C. 2426).
	,	TEMPORARY DESIGNA EXPERIMENTAL NO.	TION OR 3	VARIETY NAME
Pioneer Hi-Bred International, Inc	c.			9242
4. ADDRESS (street and no. or R.F.D. no., city, state, and ZIP)		5. PHONE (Include area co	· 1_	FOR OFFICIAL USE ONLY
700 Capital Square			P	VPO NUMBER
400 Locust		(515) 270-35	582	9300238
Des Moines, IA 50309		(- I	
•		•		F Date
6 GENUS AND SPECIES NAME 7. FAMI	ILY NAME (Botania	eath		i June 14, 1993
				N 8:30 MAM. DPM.
8. CROP KIND NAME (Common Name)	eguminos			F Filing and Examination Fee:
· ·		DATE OF DETERMINATION	·	£ : 2325.40
Soybean	1	October 1987		S Date
10. IF THE APPLICANT NAMED IS NOT A "PERSON," GIVE FORM OF ORGANIZATION	(Corporation, part	nership, association, etc.)		1 here 7, 1993
Corporation				E Certificate Fee:
11, IF INCORPORATED, GIVE STATE OF INCORPORATION	12 DA	TE OF INCORPORATION		: 300.00
Iowa	12. 54	1926	1	V Date
<u> </u>			J	6 05/12/97
13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN				
John Grace		Roth (copy)		
7301 NW 62nd Ave., P.O. Box 85				0 Locust Street
Johnston, IA 50131-0085	Des	Moines, IA	50309	•
	-	PHONE (Includ	e area code):	
14. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow INSTRU	JCTIONS on rever	se)		· ·
The state of the s	<i>:</i>			
	• .			
			* * *	
		+	÷	
e. X Exhibit E, Statement of the Basis of Applicant's Ownership. 1. X Seed Sample (2,500 viable untreated seeds). Date Seed Sample r	. 2		6/11/93	
g. X Filing and Examination Fee (\$2,150) made payable to "Treasurer			U/ 11/ JC	·
15. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VAR			00000 (0	- Harris COV No. Call Co.
Protection Act.) YES (If "YES." answer items 16 and 17 below)		O," skip to item 18 below)	2FFD: (269.76	cum osta) of the Plant Variety
16. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?		·····	CE PRODUCTIO	ON BEYOND BREEDER SEED?
			_	
L YES NO	FOU	NDATION	REGISTERE	D CERTIFIED
18. DID THE APPLICANT(S) PREVIOUSLY FILE FOR PROTECTION OF THE VARIETY IN T	THE U.S.?			
	ent Act. Give dat	e:)		
X no				
19. HAS THE VARIETY BEEN RELEASED, USED, OFFERED FOR SALE, OR MARKETED	IN THE U.S. OR C	THER COUNTRIES?		
YES (If "YES," give names of countries and dates)	-			
X NO		•		
<u> </u>				
20. The applicant(s) declare(s) that a viable sample of basic seeds of th	is variety will	he furnished with the a	nnlication	and will be replanished upon
request in accordance with such regulations as may be applicable.	to various will	be tarnismed with the a	ppiication	
The undersigned applicant(s) is (are) the owner(s) of this sexually	y reproduced r	ovel plant variety, and	d believe(s)	that the variety is distinct,
uniform, and stable as required in section 41, and is entitled to prot	ection under th	e provisions of section 4	2 of the Plai	nt Variety Protection Act.
Applicant(s) is (are) informed that false representation herein can je	eopardize prote	ection and result in pena	lties.	
SIGNATURE OF APPLICANT (Owner(s))	CAPACITY OR T	ITLE		DATE
N/I/ S	Sovbea	n Research M	anager	166
1. pha hace tel	,			6 /3 /93
SIGNATURE OF APPLICANT [Owner(s)]	CAPACITY OR T	ITLE		DATE
•				

FORM CSSD-470 (5-89) Edition of FORM LS-470, 3-86, is obsolete.

Exhibit A: Origin and Breeding History

Breeding History of 9242 Soybean

- The cross B216//Williams//MO184/Hodgson78 was made in the field at Napoleon, OH. The stock number 5611 was assigned to this cross.
- 1984-85 The F1 plants were grown out in the Hawaii winter nursery (plot number HI252). The plot was harvested in bulk.
- The F2 generation was grown at Napoleon, OH (plot numbers 11400-11404). The population was advanced using a modified single seed descent procedure.
- 1985-86 The F3 generation was advanced to the F5 generation in the Hawaii winter nursery using a modified single seed descent procedure.
- The F5 geneneration was grown in plots #1225-1231 at Napoleon, OH. Single plants were pulled and threshed individually.
- The F6 generation was grown at Napoleon, OH in plant rows derived from individual F5 plants. A row was selected, bulk harvested, and named 5611-08.
- 1988 5611-08 was grown in the preliminary yield test NPD11600 at three locations (Entry # 32).
- 1989 5611-08 was grown in advanced yield tests (NPA2B500 Entry 20) at 5 locations. Plants were pulled to begin purification.
- 1990 5611-08 was assigned the prefix "W" and was grown in first year elite yield tests at 19 locations in the Group II maturity zone. One hundred thirty six (136) progeny plots, each derived from a single plant, were grown for purification.
- W5611-08 was given the prefix "Y" and was grown for the second year in the elite yield test at 26 locations in the Group II maturity zone. Seventy subplots were grown from the 1990 purification progeny plots. Twenty three subplots were discarded for slight variations in height, maturity and lodging susceptibility. About 150 bushels of pure seed were harvested.
- 1992 Y5611-08 ws assigned the experimental number XB24G and was grown in the elite yield test for the third year at 25 locations. The Parentseed department assumed resposibility for increase, grew 75.5 acres of pure seed and harvested 4058 bushels
- 1993 XB24G was released as Pioneer Brand 9242.

Exhibit B: Novelty Statement

Variety 9242 is most similar to the variety 9301. Both varieties have purple flowers and tawny pubescence. However 9242 has a brown hilum and brown pods while 9301 has a black hilum and tan pods.

EXHIBIT C (Soybean)

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE LIVESTOCK, MEAT, GRAIN & SEED DIVISION PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MARYLAND 20705

OBJECTIVE DESCRIPTION OF VARIETY

SOYBEAN (Glycine max L.)

NAME OF APPLICANT(S)	TEMPORARY DESIGNATION V	ARIETY NAME	
Pioneer Hi-Bred International, Inc.	TEMPORALI BESIGNATION	9242	
,			
ADDRESS (Street and No., or R.F.D. No., City, State, and Zip Co 700 Capital Square	<u> </u>	FOR OFFICIA	L USE ONLY
400 Locust			→ ^
Des Moines, IA 50309		93002	38
Choose the appropriate response which characterizes the v	ariety in the features described be	low. When the numb	er of significant digits
in your answer is fewer than the number of boxes provided			
Starred characters * are considered fundamental to an ade	quate soybean variety description	i. Other characters sho	ould be described
when information is available. 1. SEED SHAPE:			
1. SEED SHAPE:			
2 L L	, T		
1 = Spherical (L/W, L/T, and T/W ratios = < 1.2)	2 = Spherical Flattened (L	./W ratio > 1.2; L/T ratio	o = < 1,2)
3 = Elongate (L/T ratio > 1.2; T/W = < 1.2)	4 = Elongate Flattened (L,		
★ 2. SEED COAT COLOR: (Mature Seed)			
2. SEED COAT COLOR: (Watture Seed)			
1 = Yellow 2 = Green 3 = Brown	4 = Black 5 = Other (S)	pecify)	
3. SEED COAT LUSTER: (Mature Hand Shelled Seed)			
2 1 = Dull #Govern 70% (Branco 1) 8 = 05 in (1915)			
2 1 = Dull ('Corsoy 79'; 'Braxton') 2 = Shiny ('Neb	soy'; 'Gasoy 17')		
★ 4. SEED SIZE: (Mature Seed)		<u> </u>	
1 8 Grams per 100 seeds			
5. HILUM COLOR: (Mature Seed)			·
			÷ 0.1 /0 // 1
3 1 = Buff 2 = Yellow 3 = Brown	4 = Gray 5 = Imperfect Black	k 5 = Black	7 = Other (Specify)
★ 6. COTYLEDON COLOR: (Mature Seed)			
6. COTTEDON COLOR: (Watture Seed)	•	٠	
1 1 = Yellow 2 = Green	•		
1			· · ·
★ 7. SEED PROTEIN PEROXIDASE ACTIVITY:			
2 1 = Low 2 = High			•
8. SEED PROTEIN ELECTROPHORETIC BAND:			
1 = Type A (SP1 ^a) 2 = Type B (SP1 ^b)	-		
★ 9. HYPOCOTYL COLOR:			· · · · · · · · · · · · · · · · · · ·
1 = Green only ('Evans'; 'Davis') 2 = Green w	ith bronze band below cotyledons ('W	loodworth': 'Tracy')	
3 = Light Purple below cotyledons ('Beeson'; 'Pickett 71		Control of Tracy	
4 = Dark Purple extending to unifoliate leaves ('Hodgson	'; 'Coker Hampton 266A')		·
★10. LEAFLET SHAPE:			· · · · · · · · · · · · · · · · · · ·
	. A. D. Jones		1 1
3 1 = Lanceolate 2 = Oval 3 = Ovat	e 4 = Other (Specify)		

•	11.	LEAFL	ET SIZE:					
		2	1 = Small ('Amsoy 71'; 'A5312') 3 = Large ('Crawford'; 'Tracy')	2 = Medīu	m ('Corsoy 79'; 'Gasoy 17')			•
•	12,	LEAF (OLOR:	· · · · · · · · · · · · · · · · · · ·				
		2	1 = Light Green ('Weber'; 'York') 3 = Dark Green ('Gnome'; 'Tracy')	· 2 = Mediu	m Green ('Corsoy 79'; 'Braxto	on')		
*	13.	FLOWE	R COLOR:				•	
٠		2	1 = White 2 = Purple	3 = White wit	n purple throat			
×	14.	POD CO)LOR:					-
		2	1 = Tan 2 = Brown	3 = Black				
*	15.	PLANT	PUBESCENCE COLOR:					
		2	1 = Gray 2 = Brown (Tawny)			·		
	16.	PLANT	TYPES:					
		2	1 = Slender ('Essex'; 'Amsoy 71') 3 = Bushy ('Gnome'; 'Govan')	2 = Intern	rediate ('Amcor'; 'Braxton')			
★	17.	PLANT	HABIT:				····	
		3	1 = Determinate ('Gnome'; 'Braxton') 3 = Indeterminate ('Nebsoy'; 'Improved F		Determinate ('Will')			
				•				
⋆ ¯	18.	MATUE	ITY GROUP:	·				
*	18.	MATUF 5	1 = 000	4 = I III 12 = IX	5 = II 6 = III 13 = X	7 = IV	8 = V	· · · · · · · · · · · · · · · · · · ·
	0	5	1 = 000 2 = 00 3 = 0 9 = VI 10 = VII 11 = V	III 12 = ĮX	13 = X	7 = IV	8 = V	
	0	5 DISEAS	1 = 000	III 12 = ĮX	13 = X	7 = IV	8 = V	
	19.	DISEAS BACT	1 = 000	III 12 = IX = Susceptible; 2 = Re	13 = X	7 = IV	8 = V	
	0	5 DISEAS	1 = 000 2 = 00 3 = 0 9 = VI 10 = VII 11 = V E REACTION: (Enter 0 = Not Tested; 1 = ERIAL DISEASES: Bacterial Pustule (Xanthomonas phaseoli	III 12 = IX = Susceptible; 2 = Re	13 = X	7 = IV	8 = V	
	19.	DISEAS BACT	1 = 000 2 = 00 3 = 0 9 = VI 10 = VII 11 = V EREACTION: (Enter 0 = Not Tested; 1 = ERIAL DISEASES: Bacterial Pustule (Xanthomonas phaseoli Bacterial Blight (Pseudomonas glycinea)	III 12 = IX = Susceptible; 2 = Re	13 = X	7 = IV	8 = V	
	19.	DISEAS BACT	1 = 000 2 = 00 3 = 0 9 = VI 10 = VII 11 = V E REACTION: (Enter 0 = Not Tested; 1 = ERIAL DISEASES: Bacterial Pustule (Xanthomonas phaseoli	III 12 = IX = Susceptible; 2 = Re	13 = X	7 = IV	8 = V	
	19.	DISEAS BACT	1 = 000 2 = 00 3 = 0 9 = VI 10 = VII 11 = V EREACTION: (Enter 0 = Not Tested; 1 = ERIAL DISEASES: Bacterial Pustule (Xanthomonas phaseoli Bacterial Blight (Pseudomonas glycinea)	III 12 = IX = Susceptible; 2 = Re	13 = X	7 = IV	8 = V	
	19.	DISEAS BACT	1 = 000 2 = 00 3 = 0 9 = VI 10 = VII 11 = V EREACTION: (Enter 0 = Not Tested; 1 = ERIAL DISEASES: Bacterial Pustule (Xanthomonas phaseoli Bacterial Blight (Pseudomonas glycinea) Wildfire (Pseudomonas tabaci)	III 12 = IX = Susceptible; 2 = Re	13 = X	7 = IV	8 = V	
	19.	DISEAS BACT	1 = 000 2 = 00 3 = 0 9 = VI 10 = VII 11 = V EREACTION: (Enter 0 = Not Tested; 1 = ERIAL DISEASES: Bacterial Pustule (Xanthomonas phaseoli Bacterial Blight (Pseudomonas glycinea) Wildfire (Pseudomonas tabaci)	III 12 = IX = Susceptible; 2 = Re	13 = X	7 = IV	8 = V	
	19.	DISEAS BACT	1 = 000 2 = 00 3 = 0 9 = VI 10 = VII 11 = V EREACTION: (Enter 0 = Not Tested; 1 = ERIAL DISEASES: Bacterial Pustule (Xanthomonas phaseoli Bacterial Blight (Pseudomonas glycinea) Wildfire (Pseudomonas tabaci) L DISEASES: Brown Spot (Septoria glycines) Frogeye Leaf Spot (Cercospora sojina) Race 1 0 Race 2 0	III 12 = IX = Susceptible; 2 = Re var. sojensis)	13 = X		8 = V	
	19.	DISEAS BACT 0 1 0 FUNGA	1 = 000 2 = 00 3 = 0 9 = VI 10 = VII 11 = V EREACTION: (Enter 0 = Not Tested; 1 = ERIAL DISEASES: Bacterial Pustule (Xanthomonas phaseoli Bacterial Blight (Pseudomonas glycinea) Wildfire (Pseudomonas tabaci) L DISEASES: Brown Spot (Septoria glycines) Frogeye Leaf Spot (Cercospora sojina)	III 12 = IX = Susceptible; 2 = Re var. sojensis)	13 = X			
	19.	DISEAS BACT O FUNGA 1	1 = 000 2 = 00 3 = 0 9 = VI 10 = VII 11 = V EREACTION: (Enter 0 = Not Tested; 1 = ERIAL DISEASES: Bacterial Pustule (Xanthomonas phaseoli Bacterial Blight (Pseudomonas glycinea) Wildfire (Pseudomonas tabaci) L DISEASES: Brown Spot (Septoria glycines) Frogeye Leaf Spot (Cercospora sojina) Race 1 0 Race 2 0	III 12 = IX = Susceptible; 2 = Re var. sojensis)	13 = X			
	19.	DISEAS BACT O FUNGA 1 O O	1 = 000 2 = 00 3 = 0 9 = VI 10 = VII 11 = V EREACTION: (Enter 0 = Not Tested; 1 = ERIAL DISEASES: Bacterial Pustule (Xanthomonas phaseoli Bacterial Blight (Pseudomonas glycinea) Wildfire (Pseudomonas tabaci) IL DISEASES: Brown Spot (Septoria glycines) Frogeye Leaf Spot (Cercospora sojina) Race 1 0 Race 2 0	III 12 = IX = Susceptible; 2 = Re var. sojensis)	13 = X			
	19.	DISEAS BACT O FUNGA 1 O O	1 = 000 2 = 00 3 = 0 9 = VI 10 = VII 11 = V E REACTION: (Enter 0 = Not Tested; 1 = ERIAL DISEASES: Bacterial Pustule (Xanthomonas phaseoli Bacterial Blight (Pseudomonas glycinea) Wildfire (Pseudomonas tabaci) L DISEASES: Brown Spot (Septoria glycines) Frogeye Leaf Spot (Cercospora sojina) Race 1 0 Race 2 0 Target Spot (Corynespora cassiicola) Downy Mildew (Peronospora trifoliorum	III 12 = IX = Susceptible; 2 = Re var. sojensis) Race 3 0	13 = X			

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19. E	DISEAS	E REACTION	: (Enter 0 = Not Tested; 1 = Susc	eptible; 2 = R	lesistant) (Continued)		
- 1	FUN	GAL DISEASE	S: (Continued)				
*	1	Pod and Stem	Blight (Diaporthe phaseolorum v	ar; sojae)			
	0	Purple Seed S	tain (Cercospora kikuchii)				
	1	Rhizoctonia F	Root Rot (<i>Rhizoctonia solani)</i>			•	
		Phytophthora	Rot (Phytophthora megasperma	var. sojae)			
*		Race 1	1 Race 2 I Race 3	1	Race 4 1 Race	5 0 Race 6	1 Race 7
		Race 8	1 Race 9 Other	(Specify)R <u>a</u>	ce 10,12,13,1	6,17,19,20=1;	Race 21,25=1
	VIRA	L DISEASES:		-'			
	1	Bud Blight (Te	obacco Ringspot Virus)			·	
	1	Yellow Mosaid	c (Bean Yellow Mosaic Virus)				
*	1	Cowpea Mosai	ic (Cowpea Chlorotic Virus)	•			
	1	Pod Mottle (B	ean Pod Mottle Virus)				
*	1	Seed Mottle (S	Soybean Mosaic Virus)				
	NEM	ATODE DISEA	SES:				
		Soybean Cyst	Nematode (Heterodera glycines)			,	
*	0	Race 1	0 Race 2 0 Race 3		Race 4 Other	· (Specify)	
	0	Lance Nemato	ode (Hoplolaimus Colombus)				
*	0	Southern Roo	t Knot Nematode <i>(Meloidogyne ii</i>	ncognita)			
*		Northern Roo	t Knot Nematode <i>(Meloidogyne F</i>	fapia)			
	0	Peanut Root K	Knot Nematode <i>(Meloidogyne arei</i>	naria)			
	0	Reniform Nem	natode (Rotylenchulus reniformis,				
	\dashv	OTHER DISE.	ASE NOT ON FORM (Specify):		·		
					,		
. 1		LOGICAL RES	SPONSES: (Enter 0 = Not Tested	; 1 = Suscepti	ible; 2 = Resistant)		
*	1	Iron Chlorosis	on Calcareous Soil				
		Other (Specify	d	-			
21. 11	ISECT	REACTION:	(Enter 0 = Not Tested; 1 = Suscep	tible; 2 = Res	sistant)		
	0	Mexican Bean	Beetle (Epilachna varivestis)				
	<u></u>	Potato Leaf Ho	opper (Empoasca fabae)	to the			
į		Other (Specify)		wa		
22. IN	IDICA	TE WHICH VA	RIETY MOST CLOSELY RESEN	IBLES THAT	SUBMITTED.		
	CHAR	ACTER *	NAME OF VARIET	Y	CHARACTER	NAME O	F VARIETY
Pla	ant Sha	pe	9301		Seed Coat Luster	9231	
Le	af Sha	oe .	9301		Seed Size	79303	
Leaf Color 9301 Seed Shape 9						9302	
	af Size	1	9301		Seedling Pigmentation	9301	

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23. GIVE DATA FOR SUBMITTED AND SIMILAR STANDARD VARIETY: Paired Comparison Data

VARIETY	NO. OF DAYS	PLANT LODGING SCORE	CM PLANT HEIGHT	LEAFLET SIZE		SEED CONTENT		SEED SIZE G/100	NO. SEEDS/
	MATURITY			CM Width	CM Length	% Protein	% Oil	SEEDS	POD
9242 Submitted	133	2.8	95		,	41.4	21.4	18	
9301 Name 5: Similar Variety	139	2.5	95			41.8	22.4	17	

PUBLICATIONS USEFUL AS REFERENCE AIDS FOR COMPLETING THIS FORM:

FORM LMGS-470-57 (6-83)

- 1. Caldwell, B.E., ed. 1973. Soybeans: Improvement, Production, and Uses. Amer. Soc. Agron. Monograph No. 16.
- 2. Buttery, B.R. and R.I. Buzzell. 1968. Peroxidase activity in seeds of soybean varieties. Crop Sci., 8: 722-725.
- 3. Hymowitz, T. 1973. Electrophoretic analysis of SBTI-A2 in the USDA soybean germplasm collection. Crop Sci., 13: 420-421.
- 4. Payne, R.C. and L.F. Morris. 1976. Differentiation of soybean cultivars by seedling pigmentation patterns. J. Seed Technol. 1: 1-19.

Exhibit D: Additional Description

In Exhibit C we have identified 9242 as susceptible to bacterial blight, brown spot, pod and stem blight, rhizoctonia root rot, bud blight, yellow mosaic, cowpea mosaic, pod mottle, seed mottle, and iron chlorosis. This does not mean that 9242 is any worse for these problems than other varieties of similar maturity. Rather, we do not consider 9242 to be immune to them. Therefore, we have chosen to be conservative and have identified the line as 'susceptible'.

Table 1. Isozyme information for 9242

ACO2	ACO3	ACO4	<u>ACP</u>	\underline{ENP}	IDH1	<u>IDH2</u>	$\underline{\mathtt{MPI}}$	PHI
2	1	3	A	A	2	1	A	1

9242 is a mid group II variety. If group II maturities are divided in tenths, the relative maturity for 9242 is 2.4.

Exhibit E: Statement of the Basis of Ownership

Variety 9242 was developed by Pioneer Hi-Bred International, Inc., for which it solicits a certificate of protection.